

JC17 Rec'd PCT/PTO 21 SEP 2005

AMENDMENTS TO THE CLAIMS

Claims 1-10 cancelled.

11. (New) A multilayer plastic fuel tank having at least one opening in its wall and at least one plastic part which closes off the opening, wherein said part is sulphonated over at least a portion in contact with the internal volume of the tank.
12. (New) The tank according to claim 11, wherein the part is selected from injection-moulded parts, extruded parts, blow-moulded parts and compression-moulded parts.
13. (New) The tank according to claim 12, wherein the part contains, at least in its sulphonated portion, at least 0.1% by weight of a polyalkyleneimine with respect to the total material of the sulphonated portion of the part.
14. (New) The tank according to claim 11, wherein the part is an accessory of the fuel tank.
15. (New) The tank according to claim 14, wherein the accessory is chosen from closure plates, tank venting and/or shut-off valves, delivery tubes for the flow of gas and/or liquid, connectors for at least an electrical cable and/or at least an optical fibre, connection sockets for pump-gauge modules, filling necks, safety valves and auxiliary additive tanks.
16. (New) The tank according to claim 11, said tank being mounted on a motor vehicle.
17. (New) A process for manufacturing a multilayer plastic fuel tank comprising at least one opening in its wall, closed off by a sulphonated plastic part, wherein the following steps are carried out, in the order indicated:
 - a) at least a portion of the wall of the tank is manufactured using a moulding technique, comprising at least one operation chosen from blow moulding and compression moulding;
 - b) the opening is closed off by means of a sulphonated plastic part; and

- c) the part closing off the opening is fastened to the wall of the tank.
18. (New) The process according to claim 17, wherein the part is fastened to the wall by welding.
19. (New) The process according to Claim 17, wherein the sulphonated part was manufactured beforehand in three steps consisting, in order, of:
- a) a first step of moulding a plastic comprising, at least in a portion of the part, at least 0.1% by weight of at least only polyalkyleneimine with respect to the total material of the sulphonated portion of the part;
 - b) a step of sulphonating at least that portion of the part in contact with the gaseous or liquid SO_3 ; and
 - c) a final step of rinsing followed by neutralization of at least the contact-sulphonated portion of the part by means of an alkaline solution.
20. (New) The process according to claim 19, wherein the moulding operation is selected from injection moulding, extrusion, blow moulding and compression moulding.